

A LEADING MANUFACTURER OF
IR THERMOMETER & GAS DETECTOR.
MONITORING TEMPERATURE AND GASES.



<http://www.gasdna.com>

COMPANY HISTORY

- 2018** - Developed Zirconia O2 Analyzer.
- Developed NDIR Type CH2F2 Detector.
- Developed NDIR Type Refrigerant gases Detectors.
- Participated in Hannover Messe In Germany and IMTS 2018 In USA

- 2017** - Developed Pyrolyzer Module(NF3,SF6,WF6)
- Developed Power Over Ethernt(PoE) Webpage

- 2016** - Acquired ATX, IECEX for DA100.
- Developed N2O Analyzer of Sucked, attaction type.

- 2015** - Acquired KR (Korean Register of Shipping Certification)
- Developed Infrared Rays Thermometer for FILM (FILM-7.9)
- Developed Infrared Rays Thermometer for Glass (GLASS-5.2)
- Developed oxygen analyzer of Zirconia sensor (DA-60)
- Developed IR-Brazing for Brazing(fire penetration)
- Developed Gas Detector that can sense NF3, SF6

- 2014** - Developed View type Infrared thermometer (IR-VIEW)
- Developed Non-Contact subminiature Fixed Infrared thermometer (IR-compact,IR-22).
- Developed Non Contact Temperature + Smoke Detector(TS-60).
- Acquired CE-Mark for IR-Compact

- 2013** - Developed Two color Pyrometer(SS-100, 2IGA-100).
- Participated in exhibition 'Sensor + Test 2013' in Nuremberg, Germany

- 2012** - Developed wireless indoor air quality monitor 'IAQ-700'
- Registered patent for Infrared thermometer in Korea
- Acquired CE-Mark for SD-50
- Participated in exhibition 'Industrial Automation Show' in Hannover, Germany and Shanghai, China

- 2011** - Selected as promising small and medium enterprises by Incheon city

- 2009** - Developed InGaAs Pyrometer
- Developed Silicon Pyrometer

- 2007** - Selected as Venture company
- Acquired CE-Mark for DA-750
- Developed Thermopile Infrared thermometer first in Korea

- 2006** - Developed NDIR Detector first in Korea

- 2005** - Acquired ISO9001,ISO14000
- Registered utility model patent and design for smoke sensor

- 2004** - Established GasDNA Co., Ltd

GasDNA Co.,Ltd is a professional and leading manufacturer of Fixed Infrared thermometers, Gas detectors and smoke detectors for factory automation and process control in industry. GasDNA is focusing on developing and distributing more convenient and stable gas detectors and infrared thermometers.

Based on the technologies and expertise accumulated Since 2004, we have positioned as Korea's only infrared thermometer manufacturer, and we are planning to expand into not only the domestic market but overseas markets.

We develop and manufacture efficient and reliable products based on state of the art technologies, and we do our best to be the world leading company in the gas detector and Infrared thermometer field.

GasDNA promise customer's safety and product quality in accordance with the quality assurance K mark and ISO9001 quality system to maximize the customer's use value.

GasDna Co.,Ltd

C.E.O Go sung woon

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Gas Detector



Digital Controller



Standard Gas



Smoke Sensor



Fixed Infrared Thermometer



Portable Infrared Thermometer



Multi-input Indicator



Wireless Indoor Air Quality Monitor

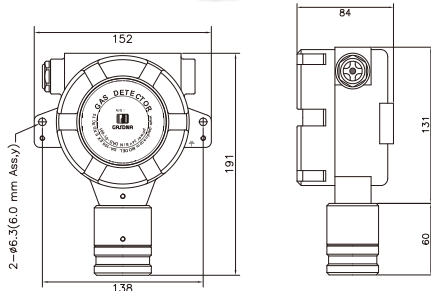
SMART Gas Detector

DA-100 Series

Non-Indicator type,
Explosion proof



* Dimension

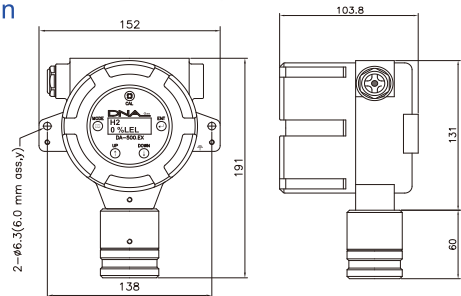


DA-500 Series

Indicator type,
Explosion proof



* Dimension



Product Specification

Segment	DA-100
Detection Principle	Catalytic combustion, TCD, Electro-chemical
Detection Method	Diffusion type
Target Gas	Combustible gas, Toxic gas
Detection Range	0~100% LEL, 0~10,000 PPM, 0~100% VOL
Response Time	Within 20sec, 90%/full scale
Accuracy	≤±2%/full scale
Checking Function	Sensor fault indication on FND (S-err), 2mA Output
Input Power	DC 20 ~ 30V
External Output	4mA~20mA / Full scale - 2.5Km Transmission
Operating Temperature/ Humidity	-30℃~60℃, 5~95% RH (Non-Condensing)
Signal Cable	CVVS & CVVSB 1.5sq x 3 Wire - Shield Type
Cable Conduit	1/2" or 3/4" PF, NPT
Installation Method	Wall or Pipe Station
External Material	Cast Aluminum Alloy
Explosion-Proof Approval	Ex d IIC T5 - KGS

Product Specification

Segment	DA-500
Detection Principle	Catalytic combustion, Non-dispersive infrared (NDIR), TCD, Electro-chemical
Detection Method	Diffusion type
Target Gas	Combustible gas, Toxic gas
Detection Range	0~100% LEL, 0~10,000 PPM, 0~100% VOL
Response Time	Within 30sec, 90%/full scale
Accuracy	≤±2%/full scale
Display	Back Light LCD(2 Line - 8 Characters)
Checking Function	Sensor fault indication on LCD (SEN -err), 2mA Output
Selection Function	Calibration concentration, Detection range setting
Input Power	DC 20 ~ 30V
External Output	4mA~20mA / Full scale - 2.5Km Transmission
Operating Temperature/ Humidity	-30℃~60℃, 5~95% RH (Non-Condensing)
Signal Cable	CVVS & CVVSB 1.5sq x 3 Wire - Shield Type
Cable Conduit	1/2" or 3/4" PF, NPT
Installation Method	Wall or Pipe Station
External Material	Cast Aluminum Alloy
Explosion-Proof Approval	Ex d IIC T5 - KGS
Relay contacts	2 step-Relay Contact (High/Low), RS-485

SMART Gas Detector

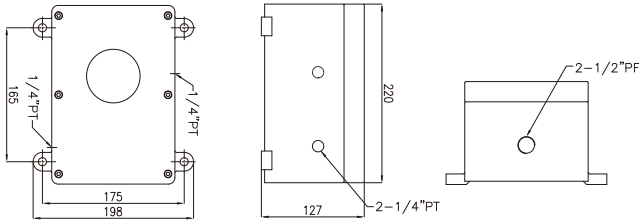


DA-800 Series

Suction type
Explosion proof



* Dimension

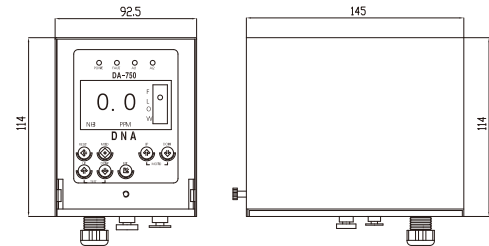


DA-750 Series

Suction type
Smart Gas detector



* Dimension



▶ Product Specification

Segment	DA-800
Detection Principle	Catalytic, NDIR, TCD, Electro-chemical, PID
Detection Method	Suction type
Target Gas	Combustible gas, Toxic gas, O ₂ , VOC
Detection Range	0~100% LEL, 0~100% VOL, 0~10,000 PPM
Response Time	Within 10sec, 90%/full scale
Accuracy	≤±2%/full scale
Induced Vacuum Flow	0.2 l/min ~ 2.5 l/min
Checking Function	Auto - Calibration With Magnetic Switch
Select ion Function	Calibration concentration, Detection-range setting
Input Power	DC 20 ~ 30V
External Output	4mA~20mA / Full scale - 2.5Km Transmission
Operating Temperature /Humidity	-20℃~60℃, 5%~95% RH (Non-condensing)
Signal Cable	CVVS & CVVSB 1.5 sq x 3Wire shielded type
Cable Conduit	1/2" or 3/4" PF, NPT
Installation Method	Wall Mounting Type
External Material	Cast Aluminum Alloy
Explosion-Proof Approval	Ex d IIB+H ₂ T6- Korea Gas Safety Corporation (KGS)
Relay contacts	2 Step Relay-Contact (High/Low), RS-485
Suction Line Conduit Pipe	1/4" Tube

▶ Product Specification

Segment	DA-750
Detection Principle	Catalytic, NDIR, Electro-chemical, PID
Detection Method	Suction type
Target Gas	Combustible gas, Toxic gas, O ₂ , VOC
Input Power	DC 20V~30V (24 V DC Normal) / 250mA (Max.)
Induced Vacuum Flow	0.2 l/min ~ 2.5 l/min
Accuracy	≤±2%/full scale
External Output	4mA~20mA DC /F.S, RS-485
Gas Leak Data Storage	Gas leak records: 4,000
Display	Graphic LCD (128 dots*64 dots)Korean/English PPM, % LEL, %VOL (Adjustable by user programming)
Operating Display	4 LEDs (Power, 2 Alarms, 1 Trouble)
Alarm Value Setting	AL1, AL2 -2 Stage (Adjustable by user programming by user)
Alarm Delay Time	0 ~99sec (Adjustable by user programming by user)
Relay Outputs	250V 0.6A / 3 SPDT Relay-Contact (2 Alarm, 1 Trouble)
Operating Temperature /Humidity	-20℃ ~ 50℃, 5% ~ 95% RH (Non-condensing)
Installation Method	Wall Mounting Type
Signal Cable	CVVS & CVVSB 1.5 sq x 3 wire - shielded type
Gas Flow Distance	Less than 100m
Gas Inlet Tube	6Ø Tube

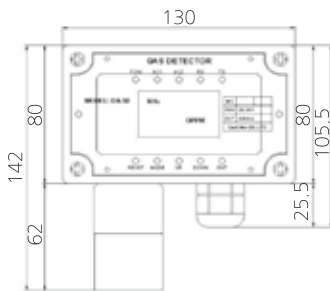
SMART Gas Detector

DA-50 Series

Indicator type
Smart Gas Detector



* Dimension

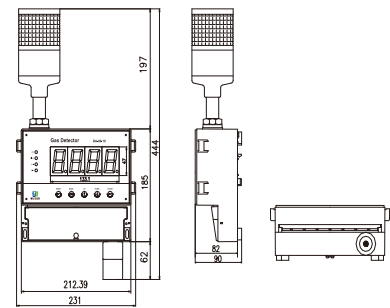


DA-90-10 Series

Waterproof type
Smart Gas Detector



* Dimension



Product Specification

Segment	DA-50
Detection Principle	Catalytic, Electrochemical, Non-dispersive-infrared (NDIR), Photo-ionization (PID)
Detection Method	Diffusion type
Target Gas	Combustible gas, Toxic gas
Accuracy	±2%/full scale
Input Power	DC 20V~30V (24V DC Normal) / 100mA (Max.)
External Output	4mA~20mA, 2Step Relay (AL1, AL2) RS-485
Relay Outputs	250 V 0.6 A / 2-SPST Relay-Contact (2 Alarms)
Display	LCD(8Characters*2Line) With Back-light %,PPM,PPb
Operating Display	4 LEDs (Power, 2 Alarms, 2-RS485 TX, RX)
Signal Cable	CVVS & CVVSB 1.5 sq *3Wire shielded type
Operating Temperature / Humidity	-20 ℃ ~ 50 ℃, 5% ~ 90% RH (Non-condensing)
Installation Method	Wall Mounting Type
Housing	Polycarbonate
Sensor calibration	Calibration with switch
User programmable	Calibration density, detection range

Product Specification

Segment	DA-90-10
Detection Principle	Electrochemical
Detection Principle	Diffusion type
Response time	Within 10sec 90%/Full Scale
Target Gas	CO (0~1000ppm)
Accuracy	±2%/Full Scale
Selectable function	Calibration density, Detection range setting
Input power	AC 220V/60Hz
Output power	4~20mA/Full Scale - 2.5Km Transmission
Alarm	Low alarm - AL1 LED(RED)
	High alarm - AL2 LED(RED)
	Light bar - BZ LED(RED)
Alarm method	Sight - Light bar
	Hearing - Buzzer (90dB/1m)
Operation temperature / Humidity	-20℃~60℃, 5~95% RH (Non-Condensing)
Alarm Off	Manual and automatic release
Alarm output	2 step (AL1/AL2) alarm relay contact, RS-485 (option)
Installation Method	Wall Mounting Type

SMART Oxygen Analyzer



DA-60

Indicator type,
Smart oxygen analyzer

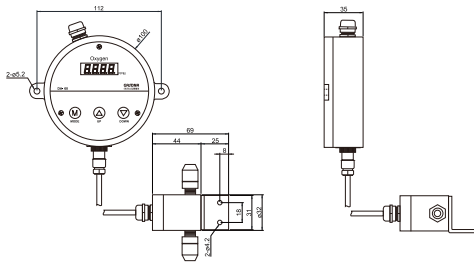


DA-750-O₂

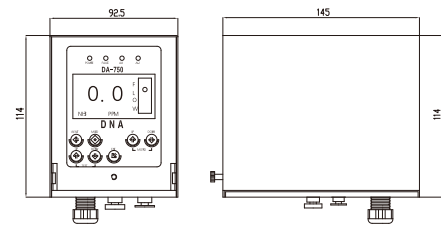
Suction Type
Smart oxygen analyzer



* Dimension



* Dimension



▶ Product Specification

Segment	DA-60
Detection Principle	zirconia O ₂ sensor
Detection Method	Diffusion type
Gas Suction	6øtube
Detection Range	1~1000ppm, 100~10000ppm, 0~25% VOL
Response Time (T90)	Within 10sec
Warming up time	Approx. 3 min
Accuracy	≤±1%/full scale
Display	4 Digit Display
Selection Function	Calibration concentration, Detection-range setting
Input Power	DC 20 ~ 30V
External Output	4mA~20mA / Full scale - 2.5Km Transmission
Operating Temperature / Humidity	-20℃~50℃, 5~95% RH (Non-Condensing)
Installation Method	Wall or Pipe Station
External Material	Cast Aluminum Alloy

▶ Product Specification

Segment	DA-750-O ₂
Detection Principle	Electrochemical, zirconia O ₂ sensor
Detection Method	Suction type
Target gas	O ₂
Detection Range	0~1000ppm, 1ppm~25% VOL
Response Time	Within 10sec
Accuracy	≤±3%/full scale
Signal Cable	CVVS & CVVSB 1.5sq X 3Wire - Shield type
Input Power	DC 20 ~ 30V
External Output	4mA~20mA / Full scale - 2.5Km Transmission
Operating Temperature / Humidity	-20℃~50℃, 5~95% RH (Non-Condensing)
Selection Function	Calibration concentration, Detection-range setting
Installation Method	Wall or Pipe Station
Output	2 Step-Relay Contact (ALARM-1/ALARM-2)
Relay contacts	RS-485

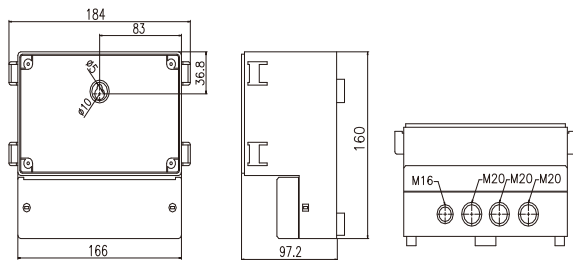
Digital Controller of Gas Detector

GMS-1000

Single-Channel Digital Controller of Gas detector



* Dimension



Product Specification

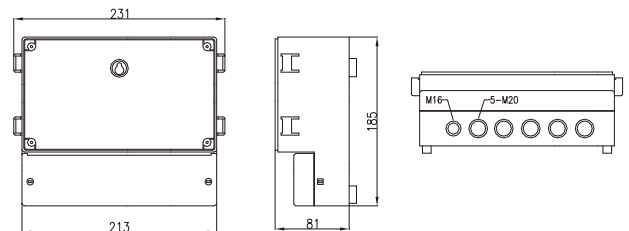
Segment	GMS-1000
Structure	Single type / 1 Circuit
Input Power	AC 230V / 60Hz
Input Signal	4~20mA DC / Full scale
Output Power	DC 24V(250mA)
Output Signal	4~20mA DC / Full scale
Signal Resolution	A/D Converter - ± 20000 D/A Converter - 12bit
Display	%LEL (Combustible), % (Oxygen), PPM (Toxic)
Alarm Display	Low alarm - AL1 LED (Red) High alarm - AL2 LED (Red) Fault alarm - Fault LED (Yellow)
Alarm Type	Visual : LED flickering Auditory : Buzzer sound (More than 80 dB)
Alarm Density	AL1 / AL2 2 Level alarm density (Adjustable by user programming by user)
Alarm Delay Time	0 sec ~ 99 sec (Adjustable by user programming by user)
Alarm Off	Manual , Automatic return
Alarm Output	2 step (AL1 / AL2) Relay-Contact
Operating Temperature	-20 °C ~ 50 °C
Operating Humidity	5% ~ 95% RH (Non-condensing)
External Material	Poly Carbonate (P.C)
Installation Method	Wall Mounting
Option	Light Bar

GMS-1500

4-Channel Digital Controller of Gas Detector



* Dimension



Product Specification

Segment	GMS-1500
Structure	Multiple-type (4 Connection detectors)/ 4 Circuits
Input Power	AC 220 V / 60 Hz, AC 110 V / 60 Hz (Option)
Input Signal	4 Channels (4~20mA / FS)
Output Power	DC 24V (250mA)
Output Signal	4 Channels (4~20mA / FS)
Display	LCD Display - PPM, % LEL, %, PPB (Adjustable by user programming by user)
Alarm Display	Low alarm - AL1 LED (Red) High alarm - AL2 LED (Red) Fault alarm - Fault LED (Yellow)
Alarm Type	Visual : LED Flickering Auditory : Buzzer sound (More than 80dB)
Alarm Value Setting	AL1/AL2 2 Level alarm (Adjustable by user programming by user)
Alarm Delay Time	0 ~ 99 sec (Adjustable by user programming by user)
Alarm Off	Manual, Automatic return
Alarm Output	250 V 5 A / 11-SPST Relay-Contact (10 Alarms, 1 Fault)
Operating Temperature	-10 °C ~ 50 °C
Operating Humidity	5 ~ 95%RH (Non-Condensing)
External Material	Poly Carbonate (P.C)
Installation Method	Wall Mounting
Option	Light Bar

Digital Controller of Gas Detector / Indicator

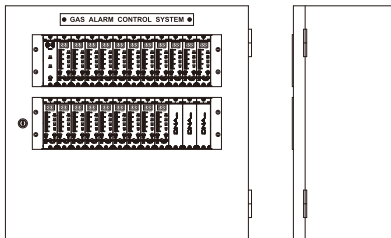


GMS-2500

Multi-Channel Digital controller of Gas detector



* Dimension

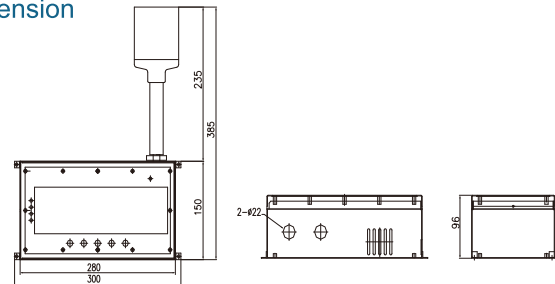


DA-90

Large Size Indicator



* Dimension



Product Specification

Segment	GMS-2500	
	Power & Alarm Unit	Receiving Unit
Control Structure	Alarm unit : Receiving unit = 1:1 ~ 64	Receiving unit : detector = 1:1
Extension Structure	Slide Card Type	
Input Power	AC 230V / 60Hz	
Input Signal	4~20mA DC / F.S	
Output Power	DC 24V (250mA)	
Output Signal	4 ~ 20mA DC / F.S , RS-485(Optional)	
Display	% LEL (Combustible), % (Oxygen), PPM (Toxic)	
Power Display	Power LED (Green)	
Alarm Display	Alarm LED (Red) Alarm LED flickering	Low alarm - AL1 LED (Yellow) High alarm - AL2 LED (Red) Fault alarm - Fault LED (Red)
Alarm Type	Buzzer sound (More than 90 dB)	Visual : Applicable alarm LED Flickering
Alarm Density		High / Low - 2Level alarm density (Adjustable by user)
Alarm Delay Time		0 ~ 99 sec (Adjustable by user)
Alarm Off	Manual, Automatic return	
Alarm Output	SPDT Relay output for High / Low 2Level alarm SPDT Relay output for Fault alarm	
Operating Temperature / Humidity	-20℃~50℃, 5~95%RH (Non-Condensing)	
External Material	19" (3U) Unit : Aluminum / System enclosure: Metal case	
Output Option	RS-485	
Option	Light Bar	

Product Specification

Segment	DA-90
Structure	Single type / 1 Circuit
Display	Large size FND 5 DIGIT(2.3 Inch)
Input Power	AC 230V/60Hz
Input signal	4-20mA DC/F.S
Output Power	DC 24V(750mA)
Output Signal	4-20mA DC/F.S
Alarm Display	Low alarm - AL1 LED (Red)
	High alarm - AL2 LED (Red)
	Fault alarm - Fault LED (Yellow)
Alarm Type	Visual : LED Flickering
	Auditory : Buzzer sound (More than 80 dB)
Alarm Value Setting	AL1/AL2 2 Level alarm (Adjustable by user)
Alarm Delay Time	0 sec ~ 99 sec (Adjustable by user)
Alarm Off	Manual, Automatic return
Alarm Output	2step(AL-1/AL-2) Alarm RELAY CONTACT, RS-485(Optional)
Operating Temperature /Humidity	-10℃ ~ 60℃ , 5 ~ 95%RH (Non-Condensing)
Installation Method	Wall Mounting

► Combustible Gas Detection

Target Gas	Molecular Formula	Target Gas	Molecular Formula
Acetaldehyde	CH ₃ CHO	Iso-butane	i-C ₄ H ₁₀
Acetic acid	CH ₃ COOH	Iso-propyl alcohol	(CH ₃) ₂ CHOH
Acetone	CH ₃ COOH ₃	Methane	CH ₄
Acetylene	C ₂ H ₂	Methyl alcohol	CH ₄ O
Benzene	C ₆ H ₆	Methyl bromide	CH ₃ Br
Butane	C ₄ H ₁₀	Naphthalene	C ₁₀ H ₈
Chloro benzene	C ₆ H ₅ Cl	Octane	CH ₃ (CH ₂) ₆ CH ₃
Chloro benzene	C ₆ H ₁₂	Pentane	CH ₃ CH ₂ CH ₂ CH ₃
Di-Methylethar	CH ₃ OCH ₃	Phenol	C ₆ H ₅ OH
Ethane	C ₂ H ₆	Propane	C ₃ H ₈
Ethanol	CH ₃ CH ₂ OH	Propylene	C ₃ H ₆
Ethylene	C ₂ H ₄	Propylene oxide (PO)	C ₃ H ₆ O
Ethylene glycol (EG)	HOCH ₂ CH ₂ OH	Thinners	
Ethylene oxide (EO)	C ₂ H ₄ O	Toluene	C ₇ H ₈
Formic acid	CH ₂ O ₂	Vinyl acetate (VAM)	CH ₂ =CHOCOCH ₃
Gasoline		Vinyl chloride	CH ₂ =CHCl
Heptane	CH ₃ (CH ₂) ₅ CH ₃	Xylene	C ₈ H ₁₀ =C ₆ H ₄ [CH ₃] ₂

※ For other gases, Please inquire with us.

► Target Gas Detection

Target Gas	Molecular Formula	Range	DA-750	DA-50	DA-500	DA-100
Ammonia	NH ₃	0~100 ppm	●	●	●	●
Arsine	AsH ₃	0~1.00 ppm	●	●	●	●
Boron Trichloride	BCl ₃	0~15.0 ppm	●	●	●	●
Boron Trifluoride	BF ₃	0~10.0 ppm	●	●	●	●
Bromine	Br ₂	0~1.00 ppm	●	●	●	●
Carbon Dioxide	CO ₂	0~5.00%vol	●	●	●	●
Carbon Monoxide	CO	0~300 ppm	●	●	●	●
Chlorine	Cl ₂	0~10.0 ppm	●	●	●	●
Chlorine Dioxide	ClO ₂	0~2.00 ppm	●	●	●	●
Chlorine Trifluoride	ClF ₃	0~2.00 ppm	●	●	●	●
Diborane	B ₂ H ₆	0~1.00 ppm	●	●	●	●
DiboraneDichlorosilane	H ₂ SiCl ₂	0~10.0 ppm	●	●	●	●
Difluoromethane	CH ₂ F ₂	0~100 ppm	●	●	●	●
Disilane	Si ₂ H ₂	0~10.0 ppm	●	●	●	●
Flourine	F ₂	0~10.0 ppm	●	●	●	●
Germane	GeH ₄	0~1.00 ppm	●	●	●	●
Hexafluorobutadiene	C ₄ F ₆	0~50.0 ppm	●	●	●	●
Hydrogen	H ₂	0~100%VOL	●	●	●	●
Hydrogen(% LEL)	H ₂	0~100%LEL	●	●	●	●
Hydrogen(ppm)	H ₂	0~2000 ppm	●	●	●	●
Hydrogen Bromide	HBr	0~10.0 ppm	●	●	●	●
Hydrocarbon	HC	0~100%LEL	●	●	●	●
Hydrogen Chloride	HCl	0~10.0 ppm	●	●	●	●
Hydrogen Cyanide	HCN	0~50.0 ppm	●	●	●	●
Hydrogen Fluoride	HF	0~10.0 ppm	●	●	●	●
Hydrogen peroxide	H ₂ O ₂	0~100 ppm	●	●	●	●
Hydrogen Sulphide	H ₂ S	0~10.0 ppm	●	●	●	●
Hydrogen Sulphide(High Level)	H ₂ S	0~100 ppm	●	●	●	●
Methane(%LEL)	CH ₄	0~100%LEL	●	●	●	●
Methyl Fluoride	CH ₃ F	0~60 ppm	●	●	●	●
methylene chloride	CH ₂ Cl ₂	0~5000 ppm	●	●	●	●
Nitrogen Dioxide	NO ₂	0~20.0 ppm	●	●	●	●
Nitric Oxide	NO	0~100 ppm	●	●	●	●
Nitrogen Trifluoride	NF ₃	0~30.0 ppm	●	●	●	●
Octofluorocyclopentene	C ₅ F ₈	0~40 ppm	●	●	●	●
Oxygen Proficiency&Deficiency	O ₂	0~25%vol	●	●	●	●
Ozone	O ₃	0~1.00 ppm	●	●	●	●
Phosphine	PH ₃	0~1.00 ppm	●	●	●	●
Phosphorous Oxychloride	POCl ₃	0~1.00 ppm	●	●	●	●
Silane	SiH ₄	0~20.0 ppm	●	●	●	●
Sulfur Dioxide	SO ₂	0~20.0 ppm	●	●	●	●
Sulfur Hexafluoride	SF ₆	0~8000 ppm	●	●	●	●
Sulfur Tetrafluoride	SF ₄	0~10.0 ppm	●	●	●	●
Tetra Ethyl Ortho Sillicate	TEOS	0~40 ppm	●	●	●	●
Tungsten Hexafluoride	WF ₆	0~12.0 ppm	●	●	●	●
Volatile Organig Compounds	VOCs	0~1000 ppm	●	●	●	●

※ For other gases, Please inquire with us.

Standard Gas Measuring Instrument



CYLINDER

Gas Measuring Instrument



► Specification Combustible Standard Gas

Gas	Size	Concentration	Balance
CH4	34 Liter	2.5% (50%LEL)	AIR
H2		2% (50%LEL)	
I-C4H10(Butan)		0.9% (50%LEL)	
C3H8(Propane)		1.05% (50%LEL)	
I-C4H8(Isobutylene)		100ppm	

► Specification Toxic Standard Gas

Gas	Size	Concentration	Balance
NH3	34, 58 Liter	25~50ppm	N2
HCL		10ppm	
HCN		10ppm	
CO		30ppm	
SO2		10ppm	
CO2		25ppm	
NO2		10~50ppm	
NO		10~50ppm	
SIH4		5ppm	
PH3		0.5~5ppm	
C6H6		100ppm	
H2S		25ppm	
CL2		10ppm	
ETO	10ppm	HCL	

► Specification 4 Mixed Gases

Gas	Size	Concentration	Balance
H2S, CO, CH4, O2	58 Liter	25PPM H2S/100PPM CO/2.5%CH4/18%O2	N2
		25PPM H2S/50PPM CO/2.5%CH4/12%O2	
H2S, CO, CH4, O2		25PPM H2S/50PPM CO/0.9%I-C4H10/12%O2	



Standard Gas Measuring Instrument

713

*Combustible Gas
Standard Regulator*



715

*Toxic Gas
Standard Regulator*



► Specification

Classification	713
Size	34, 58 Liter
Demand Flow Rate	Flow rate 0.1 / 0.3 / 0.5
Maximum Inlet Pressure	500 psig/ 35 bar
Minimum Outlet Pressure	20 psig/ 1.4 bar
Inlet	CGA 600
Outlet	3/16" Barb/4.8mm
Gauge	0-500 psig/35bar

► Specification

Classification	715
Size	34, 58 Liter
Demand Flow Rate	Flow rate 0.1 / 0.3 / 0.5
Maximum Inlet Pressure	1000 psig/ 70 bar
Minimum Outlet Pressure	60 psig/ 4.1 bar
Inlet	5/8-18 UNF
Outlet	3/16" Barb/4.8mm
Gauge	0-1000 psig/70bar

Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.



IR-View series

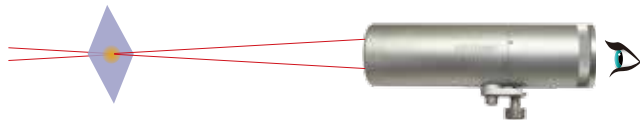
View Type Pyrometer

IR-80

Subminiature Non-contact infrared thermometer



* Free software

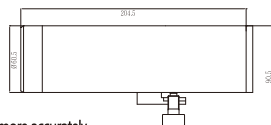


* Dimension



LED Display

렌즈



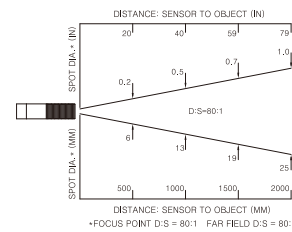
View type enables users to focus on a measure object which cannot be pointed by laser because of strong light emission. Users can see through the measure object through the lens and focus more accurately.



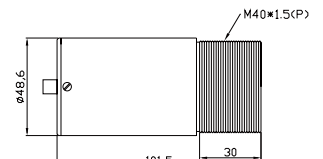
* Free software



* Optical Field of View (80:1)



* Dimension



Product Specification

Segment	IR-View	
	1 color	2 color
Range	800℃~2400℃	
Resolution	1℃	
Emissivity	0.1~0.99	0.75~1.25
Response Time	Within 0.001sec	
Accuracy	±1%/F.S or 1℃	
Detection sensor	Si or InGaAs or 2 Color-Si/Si	
Field of view(D:S)	200:1	
Wave length Range	1.0μm, 1.1μm	
Input Power	DC 12~24V (Max 200mA)	
External Material	Aluminum	
Cable	3m, other	

Model Number

Model	Temperature Range
1 Color	
IR-View-1	100~600℃
IR-View-4	400~1500℃
IR-View-8	800~2400℃
IR-View-10	1000~3000℃
2 Color	
IR-VIEW-2IG-3	300~700℃
IR-VIEW-SS-8	800~2400℃
IR-VIEW-SS-10	1000~3000℃

* Application :

Aluminium, Chrome, Copper, Magnesium, Nickel Oxide, Platinum, Gold, Silver, Titanium Oxide, Zinc, Tin, Steel, Etc.,

Product Specification

Segment	IR-80	
	Range	150℃~700℃
Resolution	0.1℃	
Emissivity	0.10~0.99	
Response Time	Within 50msec	
Accuracy	±1%/F.S or 1℃	
Sensor	InGaAs, Silicon	
Field of View (D:S)	80:1	
Wavelength Range	0.85~1.1μm, 1~1.6μm, 2.0μm	
Input Power	DC 20~24V (Max 50mA)	
External Material	Aluminum	
Cable	3m, other	

Code Number

IR-80-□-□-□

Model	Description
Code A	Temperature range
1	500℃~1500℃
2	800℃~2400℃
3	800~2200℃(Silicon sensor)
4	150~700℃ (Extend InGaAs 2.6μm)
5	75℃~400℃
Z	Other
Code B	output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Aluminum, Chrome, Copper, Metal, Magnesium, Oxidenickel, Platinum, Gold, Silver, Oxided-Titanium, Zinc, Tin, Steel, Oxided- Steel, Oxided-Brass, Etc.,

Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.

Brazing-3.9

Brazing, welding thermometer

10-IRman

Subminiature Non-contact infrared thermometer



* Free software

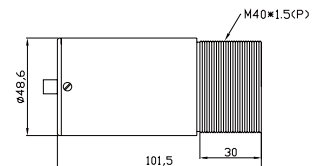
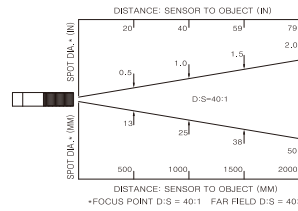
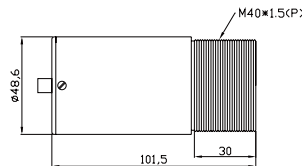
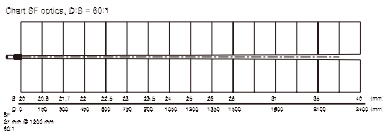
* Free software

* Optical Field of View (60:1)

* Dimension

* Optical Field of View (40:1)

* Dimension



Product Specification

Segment	Brazing-3.9
Range	300~1300°C
Resolution	1°C
Emissivity	0.01~1.00
Response Time	Within 10msec
Accuracy	±1%/F.S or 1°C
Field of View(D:S)	60:1
Wavelength Range	3.9μm
Input Power	DC 20~24V (Max 200mA)
External Material	SUS
Cable	3M, Other

Code Number Brazing-3.9-□-□-□

Model	Description
Code A	Temperature range
1	300~1300°C
2	300~1600°C
Z	Other
Code B	Output
N	DC 4~20mA
Z	Other
Code C	Cable Length
1	3M
Z	Other

* Application :
Brazing, Rivet forge, Ladle, Glass, Kiln, incinerator, etc.,

Product Specification

Segment	10-IRman
Range	-20°C~1000°C
Resolution	0.1°C
Emissivity	0.10~0.99
Response Time	Within 50msec
Accuracy	±1%/F.S or 1°C
Sensor	InGaAs, Silicon
Field of View (D:S)	100:1
Wavelength Range	0.85~1.1μm, 1~1.6μm, 2.0μm
Input Power	DC 20~24V (Max 50mA)
External Material	Aluminum
Cable	3m, other

Code Number 10-IRman-□-□-□

Model	Description
Code A	Temperature range
1	-20~1000°C
2	0~500°C
Z	Other
Code B	output
M	DC 4~20mA
N	DC 4~20mA
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :
Aluminum, Chrome, Copper, Metal, Magnesium, Oxidnickel, Platinum, Gold, Silver, Oxided-Titanium, Zinc, Tin, Steel, Oxided-Steel, Oxided-Brass

Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.



Glass-5.2

Glass

Film-7.9

Film, Plastic



* Free software



* Free software

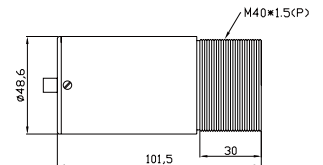
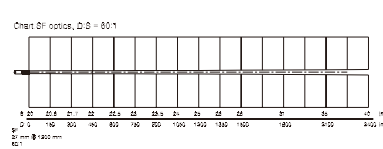
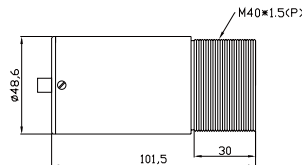
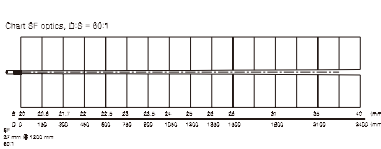


* Optical Field of View (60:1)

* Dimension

* Optical Field of View (60:1)

* Dimension



Product Specification

Segment	Glass-5.2
Range	250~1300℃
Resolution	1℃
Emissivity	0.01~1.00
Response Time	Within 0.01sec
Accuracy	±1%/F.S or 1℃
Field of View(D:S)	60:1
Wavelength Range	5.2μm
Input Power	DC 20~30V (Max 200mA)
External Material	AL
Cable	3M,Other

Code Number Glass-5.2-□-□-□

Model	Description
Code A	Temperature Range
1	250~1300℃
2	250~1600℃
Z	Other
Code B	Output
N	DC 4-20mA
Z	Other
Code C	Cable Length
1	3M
Z	Other

* Application :
A sort of Glass

Product Specification

Segment	Film-7.9
Range	0~500℃
Resolution	1℃
Emissivity	0.01~1.00
Response Time	Within 0.01sec
Accuracy	±1%/F.S or 1℃
Field of View(D:S)	60:1
Wavelength Range	7.9μm
Input Power	DC 20~30V (Max 200mA)
External Material	AL
Cable	3M,Other

Code Number Film-7.9-□-□-□

Model	Description
Code A	Temperature Range
1	0~500℃
2	0~700℃
Z	Other
Code B	Output
N	DC 4-20mA
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :
Plastic, Film, etc.,



Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.

4-IRman

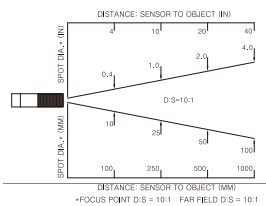
Non-Contact Infrared Thermometer



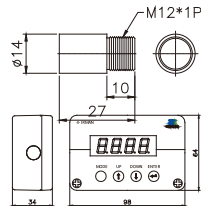
* Free software



* Optical Field of View (10:1)



* Dimension



6-IRman

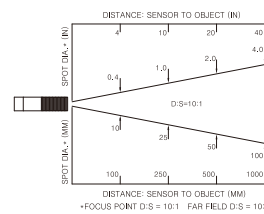
Non-Contact Infrared Thermometer



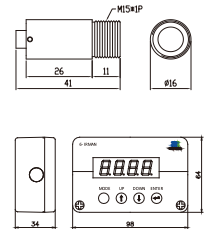
* Free software



* Optical Field of View (10:1)



* Dimension



Product Specification

Segment	4-IRman
Range	-60~400℃
Resolution	0.1℃
Emissivity	0.10~1.00
Response Time	Within 100msec
Accuracy	±1%/F.S or 1℃
Field of view(D:S)	10:1
Wave length Range	8~14μm
Input Power	DC 20~24V (Max 200mA)
External Material	SUS
Cable	3m, other

Code Number 4-IRman-□-□-□

Model	Description
Code A	Temperature range
1	-20~400℃
2	0~400℃
Z	Other
Code B	Output
N	DC 4-20mA
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Plastic, Lumber, Rubber, Glass, Paper, Asphalt, Ceramics, Food, Etc.,

Product Specification

Segment	6-IRman
Range	-20℃~600℃
Resolution	0.1℃
Emissivity	0.10~0.99
Response Time	Within 100msec
Accuracy	±1%/F.S or 1℃
Detection sensor	Thermopile
Field of view(D:S)	10:1
Wave length Range	8~14μm
Input Power	DC 20~24V (Max 200mA)
External Material	SUS
Cable	3m, other

Code Number 6-IRman-□-□-□

Model	Description
Code A	Temperature range
1	-20~600℃
2	0~600℃
Z	Other
Code B	Output
M	DC 0-20mA
N	DC 4-20mA
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Plastic, Lumber, Rubber, Glass, Paper, Asphalt, Ceramics, Food, Etc.,

Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.



IR-22

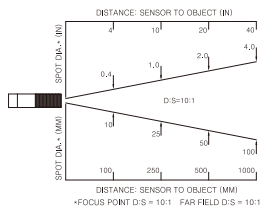
Subminiature Non-Contact Infrared Thermometer



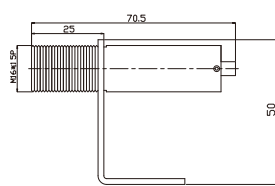
* Free software



* Optical Field of View (10:1)



* Dimension



Product Specification

Segment	IR-22
Range	-60~380℃
Resolution	0.1℃
Emissivity	0.95 fixed (Changeable when using PC software program)
Response Time	Within 100msec
Accuracy	±1%/F.S or 1℃
Ambient temperature	-20~70℃
Field of View (D:S)	10:1
Wavelength Range	8~14μm
Input power	DC 12~24V (Max 50mA)
External Material	SUS
Cable	3m, other

Code Number IR-22-□-□-□

Model	Description
Code A	Temperature range
1	0~200℃
2	0~350℃
3	-50~350℃
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	DC 1~5V
Z	Other
Code C	Cable Length
1	1M
Z	Other

*Application :

Vinyl, Plastic, Lumber, Rubber, Glass, Paper, Asphalt Concrete, Oxidized Steel, Asphalt, Ceramics, Food, Etc.,

IR-Compact

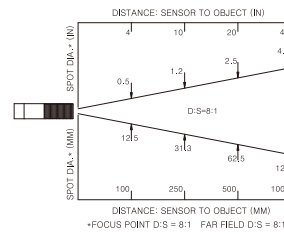
Subminiature Non-Contact Infrared Thermometer



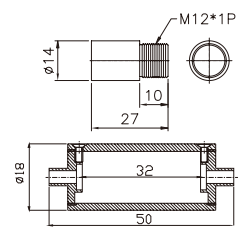
* Free software



* Optical Field of View (8:1)



* Dimension



Product Specification

Segment	IR-Compact
Range	-60~380℃
Resolution	0.1℃
Emissivity	0.10~0.99
Response Time	Within 100msec
Accuracy	±1%/F.S or 1℃
Ambient temperature	-30~85℃
Field of View (D:S)	8:1
Wavelength Range	8~14μm
Input Power	DC 12~24V (Max 200mA)
External Material	SUS
Waterproof	IP65, NEMA 4
Cable	3m, other

Code Number IR-Compact-□-□-□-□

Model	Description
Code A	D:S
1	8:1
2	12:1 (Option)
Code B	Temperature Range
1	0~350℃
2	-60~350℃
Z	Other
Code C	Output
N	DC 4~20mA
Code D	Cable length
1	1M
Z	Other

*Application :

Vinyl, Plastic, Lumber, Rubber, Glass, Paper, Asphalt Concrete, Oxidized Steel, Asphalt, Ceramics, Food, Etc.,

Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.

IR-40

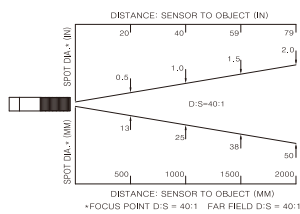
Non-Contact Infrared Thermometer



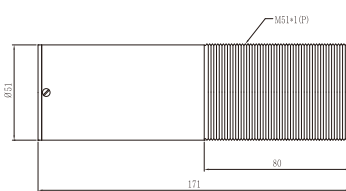
* Free software



* Optical Field of View (40:1)



* Dimension



IR-80-H

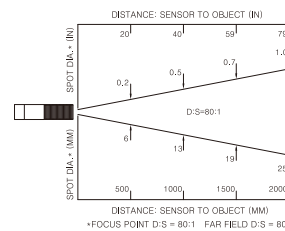
High temperature Non-Contact Infrared Thermometer



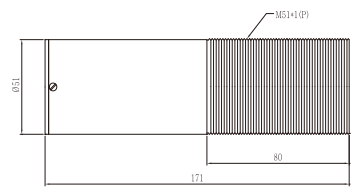
* Free software



* Optical Field of View (80:1)



* Dimension



Product Specification

Segment	IR-40
Range	0°C~1,000°C
Resolution	0.1°C
Emissivity	0.1~0.99
Response Time	Within 100msec
Accuracy	±1%/F.S or 1°C
Detection Sensor	Thermopile
Field of View (D:S)	40:1
Wavelength Range	8~14μm
Input Power	DC 20~24V (Max 50mA)
External Material	Aluminum
Cable	3m, other

Code Number

IR-40-□-□-□

Model	Description
Code A	Temperature range
1	0°C~1000°C
2	0°C~700°C
3	-20°C~1000°C
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Vinyl, Plastic, Lumber, Rubber, Glass, Paper, Asphalt Concrete, Oxidized Steel, Asphalt, Ceramics, Food, Etc.,

Product Specification

Segment	IR-80-H
Range	150~700°C 500~1700°C
Resolution	0.1°C
Emissivity	0.1~0.99
Response Time	Within 0.1sec
Accuracy	±1%/F.S or 1°C
Field of view(D:S)	80:1
Wave length Range	1~1.6μm, 2.6μm, 0.85~1.1μm
Input Power	DC 16V~24V (Max 50mA)
External Material	Aluminum
Cable	3m, other

Code Number

IR-80-H-□-□-□

Model	Description
Code A	Temperature range
1	150°C~700°C
2	500°C~1800°C
3	800°C~2200°C
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage Ourput DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Aluminium, Chrome, Copper, Magnesium, Nickel Oxide, Platinum, Gold, Silver, Titanium Oxide, Zinc, Tin, Steel, Etc.,

Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.



IR-20

Non-Contact Infrared Thermometer



2IGA-100

2-Color pyrometer

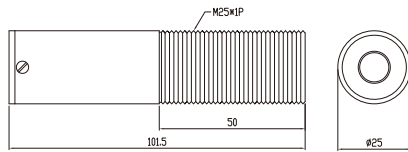
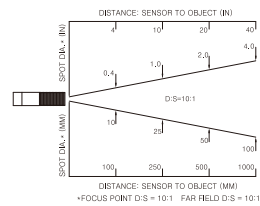


* Free software



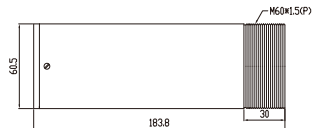
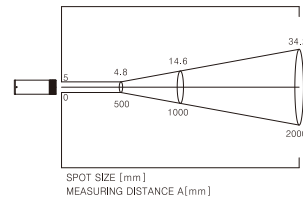
* Optical Field of View (10:1)

* Dimension



* Optical Field of View (100:1)

* Dimension



Product Specification

Segment	IR-20
Range	0°C~400°C
Resolution	0.1°C
Emissivity	0.95(Fixed)
Response Time	Within 100msec
Accuracy	±1%/F.S or 1°C
Waterproof	IP65, NEMA 4
Field of View (D:S)	10:1
Wavelength Range	8~14μm
Input Power	DC 20~24V (Max 50mA)
External Material	Aluminum
Cable	3m, other

Code Number IR-20-□-□-□

Model	Description
Code A	Temperature range
1	0°C~200°C
2	0°C~400°C
Z	Other
Code B	Output
N	DC 4~20mA
V	Voltage output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Vinyl, Plastic, Lumber, Rubber, Glass, Paper, Asphalt Concrete, Oxidized Steel, Asphalt, Ceramics, Food, Etc.,

Product Specification

Segment	2IGA-100	
	1 color	2 color
Range	400°C~1200°C	
Resolution	1°C	
Emissivity	0.1~0.99	0.75~1.25
Response Time	Within 0.01sec	
Accuracy	±1%/F.S or 1°C	
Detection sensor	2 Color-InGaAs/InGaAs	
Field of view(D:S)	100:1	
Wave length Range	1.0~1.5μm	
Input Power	DC 12~24V (Max 200mA)	
External Material	SUS	
Cable	3m, other	

Code Number 2IGA-100-□-□-□

Model	Description
Code A	Temperature range
1	300°C~700°C
2	400°C~1200°C
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	Output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Aluminium, Chrome, Copper, Magnesium, Nickel Oxide, Platinum, Gold, Silver, Titanium Oxide, Zinc, Tin, Steel, Etc.



Fixed Infrared Thermometer

*OEM Service is available, Please contact us for further information.

SS-100

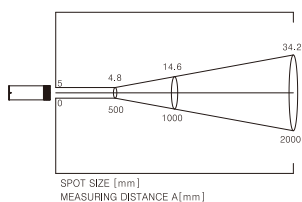
2-Color pyrometer



* Free software



* Optical Field of View (100:1)



* Dimension



► Product Specification

Segment	SS100	
	1 color	2 color
Range	800℃~2400℃	
Resolution	1℃	
Emissivity	0.1~0.99	0.75~1.25
Response Time	Within 0.01sec	
Accuracy	±1%/F.S or 1℃	
Detection sensor	2 Color-Si/Si	
Field of view(D:S)	100:1	
Wave length Range	0.8~1.1 μm	
Input Power	DC 12~24V (Max 200mA)	
External Material	SUS	
Cable	3m, other	

► Code Number SS-100-□-□-□

Model	Description
Code A	Temperature range
1	800℃~1800℃
2	800℃~2400℃
Z	Other
Code B	Output
M	DC 0~20mA
N	DC 4~20mA
V	Voltage Output DC 1~5V
Z	Other
Code C	Cable length
1	3M
Z	Other

* Application :

Aluminium, Chrome, Copper, Magnesium, Nickel Oxide, Platinum, Gold, Silver, Titanium Oxide, Zinc, Tin, Steel, Etc.,

Portable Infrared Thermometer

*OEM Service is available, Please contact us for further information.



PIR-550

Portable Infrared Thermometer



► Product Specification

Segment	PIR-550
Range	-60℃~550℃
Wavelength Range	8~14μm
Operating Temperature	0~50℃
Accuracy	2℃ or ±2%
Emissivity	0.1~1.0
Response Time	within 1 Sec.
Field of View (D:S)	12:1
Battery life	min 14 hours continuous use
Dimensions	143.9*116.73*42.78mm
Weight	180g(including battery)

PIR-1500

Portable Infrared Thermometer



► Product Specification

Segment	PIR-1500
Range	-35℃~1500℃
Wavelength Range	8~14μm
Operating Temperature	0~50℃
Accuracy	2℃ or ±2%
Emissivity	0.1~1.0
Response Time	within 1 Sec.
Field of View (D:S)	75:1
Memory	Detailed 24 Memories with Temperature & Emissivity
Battery life	min 14 hours continuous use (without Laser and Back Light)
Dimensions	204.14*179.19*58.40mm
Weight	355g(including battery)

PIR-2400

Portable Infrared Thermometer



► Product Specification

Segment	PIR-2400
Range	200℃~2400℃
Wavelength Range	1~2μm
Operating Temperature	0~50℃
Accuracy	2℃ or ±2%
Emissivity	0.1~1.0
Response Time	within 1 Sec.
Field of View (D:S)	100:1
Memory	Detailed 24 Memories with Temperature & Emissivity
Battery life	min 14 hours continuous use (without Laser and Back Light)
Dimensions	233.8*207.5*60.6mm
Weight	550g(including battery)

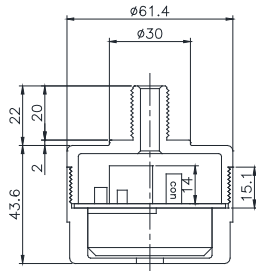
Smoke Sensor

SD-51

Smoke Sensor



* Dimension



TS-60

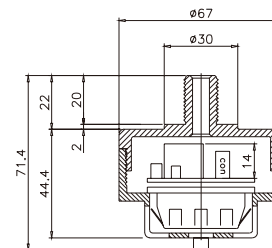
Temperature & Smoke Sensor

Temperature detection



Smoke detection

* Dimension



Product Specification

Segment	SD-51
Detection Principle	Ionizations Smoke Chamber
Detection Method	Diffusion Type
Response Time	Within 3sec
External Output	A contact (DC 30 V 1 A), B contact
Input Power	DC 22V~26V
Operating Current	25mA, Maximum
External Material	Acetal
Operating Temperature / Humidity	-20℃~65℃ / 0~95% RH (Non-condensing)
Process	Digital Process

Product Specification

Segment	TS-60_ Non contact Infrared thermometer
Measuring Range	-70 ~ 380℃ (Alarm value setting by DIP switch)
Device	Thermopile (Non contact Infrared measurement)
Optical Resolution	35°
Optical Spectrum	8~14μm
Response time	0.3 sec
Relay Output	Relay A (DC30V 1A)

Segment	TS-60_ Smoke sensor
Detection Principle	Ionizations Smoke Chamber
Detection Method	Diffusion
Response time	Within 3sec
Relay Output	Relay A (DC30V 1A)
Input power	DC 22V~26V
Currency consumption	50mA, Maximum
Operation temperature / humidity	-20℃~ 60℃ / 0 ~ 95% RH (Non-Condensing)
Process	Digital Process

* Temperature setting in factory : 50℃

* Smoke density : 1%

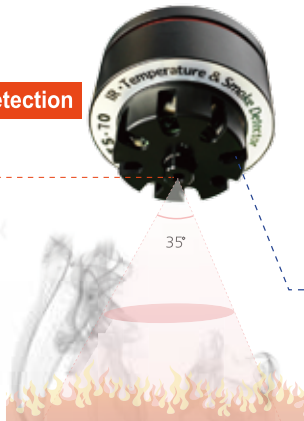
Temperature & Smoke Sensor Wireless Indoor Air Quality Monitor



TS-70

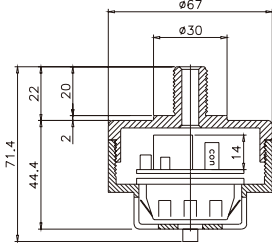
Temperature & Smoke Sensor

Temperature detection



Smoke detection

* Dimension

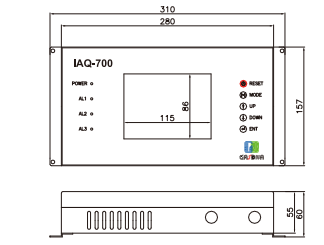


IAQ-700

Wireless Indoor Air Quality Monitor



* Dimension



Product Specification

Segment	TS-70_Non contact Infrared thermometer
Measuring range	-70 ~ 350℃
Device	Thermopile (Non contact Infrared measurement)
Optical Resolution	35°
Optical Spectrum	8~14μm
Response time	0.3 sec
Relay Output	4-20mA

Segment	TS-70_Smoke sensor
Detection Principle	Ionizations Smoke Chamber
Detection Method	Diffusion
Response time	Within 3 sec
Relay Output	Relay A (DC30V 1A)
Input power	DC 22V~26V
Currency consumption	50mA. Maximum
Operation temperature / humidity	-20℃~ 60℃ / 0 ~ 95% RH (Non-Condensing)
Process	Digital Process

- * Temperature setting in factory : 50℃
- * Smoke density : 1%

Product Specification

Segment	IAQ-700	
VOC	Measurement range	0 ~ 1,000 ppm
	Resolution	1 ppm
	Accuracy	≤±3%/Full Scale
	Response time	Within 10 sec (T90)
CO2	Measurement range	0 ~ 10,000 ppm
	Resolution	10 ppm
	Accuracy	≤±5%/Full Scale
DUST	Measurement range	0 ~ 500 μg/m ³
	Resolution	1 μg/m ³
	Accuracy	≤±3%/Full Scale
Temperature	Measurement range	-25 ~ 60 ℃
	Resolution	0.2 ℃
	Accuracy	≤±2%/Full Scale
Humidity	Measurement range	0~100%RH
	Resolution	0.4% RH
	Accuracy	≤±3%/Full Scale
	Response time	Within 15 sec (T90)
	Response time	ZigBee
	Input power	DC 9V ~ DC24V
	Density Display	320×240 DOT Graphic LCD Display
	Alarm Display	AL-1,AL-2 LED(RED)
	Alarm Output	2 Step RELAY CONTACT
	Operation Temperature/ Humidity	-10℃ ~ 70℃ / 5 ~ 95%RH (Non-Condensing)
	Dimension	310*157*60
	Installation	Wall Mounting Type
	Communication	RS-485 Modbus RTU

Indicator / Infrared Thermometer Accessories

IR-1

Infrared Thermometer Indicator



DI-20

Multi Input Indicator Compact type



Product Specification

Segment	IR-1
Input	DC(4~20mA) or RS-485(Baudrate 9,600bps)
Accuracy	$\leq \pm 0.2\%$ Full Scale
Dimensions and Display Cycle	100 ms
Sensor Power	DC 24V 50mA
Display	T.Value(4 DIGT), Emissivity(4 DIGT)
Relay Output	4~20mA/Full Scale
	RS485 (Baudrate : 4,800~ 57,600bps)
Input Power	AC 110V ~ 240V/60Hz
Power Consumption	3.5W
Weight	450g
Size (mm)	96(W) x 96(H) x 110(D) mm

Product Specification

Segment	DI-20
Input Type (User-Selectable Multiple Input)	TC (B, R, S, K, E, J, T, N), RTD (DIN PT1, DIN PT(0.1), JIS PT) DC (mV, V, mA)
Accuracy	$\pm 0.2\%$ / Output Signal : $\pm 0.25\%$ (Full scale)
Dimensions and Display Cycle	100 ms (mV, Volt, mA type), 200 ms (TC, TRD type)
Signal Source Resistance	PT100 Ω , 30 Ω /Line, Other types 300 Ω / Line
Installation Method	Panel-mounting type
Output Signal (Option)	Electrical insulation Current : DC4 ~ 20 mA / 600 Ω
Power Consumption	3.5 W (Max.)
Input Power	AC 85V~264V
Insulation resistance	FG input, FG power, power input, More than 100 Ω (500 VDC)
Built-in Sensor Power	DC 24 V / 30 mA / less than $\pm 0.5\%$
Weight	About 350g
Size (mm)	96 (W) x 48 (H) x 100 (D) mm

Infrared Thermometer Accessories

Options



Airpurge



Water-cooling jacket



Laser pointer



Bracket



RS485 to RS232 Converter

Certificate Status



* IECEx DA-100



* ATEX DA-100 Certificate



* Letter of a Patent



* DA-50 CE Mark



* DA-100 Explosion Proof Certificate



* Letter of a Patent

Certificate Status



* DA-750 CE Certificate



* DA-100 KR Classification



* DA-500 Explosion Proof Certificate



* DA-800 Explosion Proof Certificate



* IR-20 CE Certificate



* IR-40 EMC Certificate

Certificate Status



* SD-51 CE Certificate



* Gas-Pro CE Certificate



* Certificate of Utility Model Registration



* ISO9001-14001 2015 Quality&Environmental



* The Pattern of Smoke detector



* IR-80 EMC Certificate



* Safety Certificate



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